

other parts are made of "Silver Metal," a new production which combines great strength with extreme lightness; it will not rust or tarnish. The nut sockets can be inserted directly into the ratchet, or by using one or more extension bars a long or short shank ratchet wrench is obtained, which will enable the user to operate in almost any conceivable position. The reverse motion is easily obtained by removing the ratchet from the socket or bar, turning it over and replacing it. A ratchet drill attachment is provided for use in combination with the ratchet. Its weight is one-fourth that of the regular ratchet drill of equal capacity. An important feature of this drill is the adjustment of the friction on feed screw by means of a clamping screw. The device enables the operator to clamp the feed screw tight enough to prevent premature turning, thereby reducing the breakage of drills to a minimum. By removing the feeding device the combination of the drill socket and ratchet produces a tap wrench which can be used for tapping out



GIANT "SILVER METAL" RATCHET WRENCH

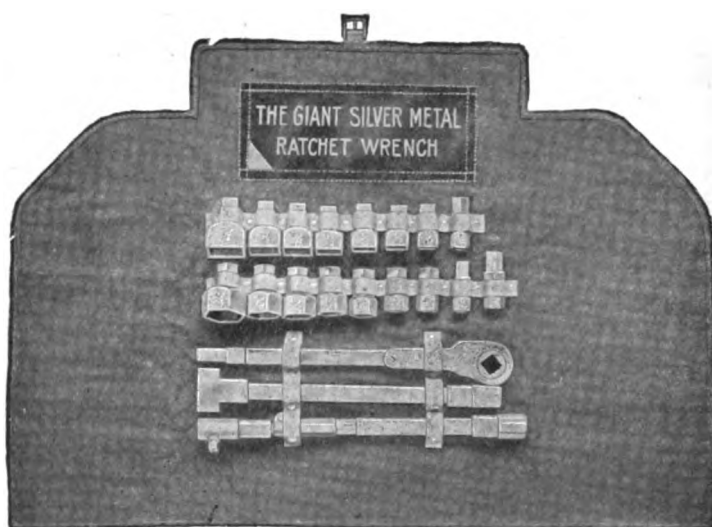
Giant "Silver Metal" Ratchet Wrench

Patterson, Gottfried & Hunter, Ltd., 150 Centre street, New York, are placing on the market the Giant "Silver Metal" Ratchet Wrench, illustrated. This Wrench is especially designed for use about automobiles where there are many obstinate nuts and screws in almost inaccessible places. Swivel joints or other complicated parts have been eliminated in the construction of this tool. Several simple and ingenious devices have made it possible to turn any nut or screw in any place. The handles and extension bars are made of square seamless steel tubing. All

holes in almost inaccessible parts of machinery. A Solid Socket Wrench is one of the many possible combinations of the parts of this tool, producing a solid or T socket wrench which can be made into three different lengths. It can also be made into an L socket wrench. A screw driver blade is used in building up the various length screw drivers. The blade itself is made of fine tool steel and is secured firmly to the shank. By the use of the different lengths of extension bars, combinations can be made of any length from 10 to 30 inches. The ratchet can be placed anywhere on the bar, thus making a ratchet screw driver with varying length shank. This tool is a combination of ratchet wrench for square nuts and hexagon nuts, T or L handle socket wrench for square nuts, T or L handle socket wrench for hexagon nuts, extension shank ratchet wrench, heavy screw driver with long or short handle, ratchet screw driver and ratchet drill with long or short handle. The Wrench is furnished with canvas case or in a neat wooden box. The canvas case is to be preferred for use on automobiles, but the wooden box will also be found useful in many places.

The Giant "Silver Metal" Ratchet Wrench Kit

Presents valuable combinations of
WRENCHES, SCREW DRIVERS and RATCHET DRILLS



A Ratchet Wrench for Square or Hexagon Nuts.

A "T" or "L" Handle Socket Wrench for Square Nuts.

A "T" or "L" Handle Socket Wrench for Hexagon Nuts.

An Extension Shank Ratchet Wrench.

A Heavy Screw Driver with long or short handle.

A Ratchet Screw Driver.

A Ratchet Drill with long or short handle.

It is difficult to conceive a nut or screw so placed that it cannot be turned with this wrench kit.

A few simple parts form combinations of Wrenches. Screw Drivers and Ratchet Drills that come into every-day use, especially about the AUTOMOBILE. It is made of "SILVER METAL," a new production of very great strength, extreme lightness and rust proof.

Its utility and extremely low cost commend it to the dealer. Compact and cannot get out of order. Can be had in Canvas Case or Box.

*Write for Book —
Tools Displayed at
the Automobile
Show.*

PATTERSON, GOTTFRIED & HUNTER,

Limited.

Machinery,

Metals,

Hardware,

Tools and Supplies.

146-150 Centre Street,
New York City.

"Ellis" Off-Set Wrench

Patterson, Gottfried & Hunter, Ltd., 146 Centre street, New York, are placing on the market the Ellis Adjustable "S" Wrench, illustrated. The jaws are hinged so they can be thrown to the right or left and locked in either position. The shape of the jaws are so designed as to give great strength without being too large to work in confined places. Fig.



FIG. 1 ELLIS ADJUSTABLE "S" WRENCH



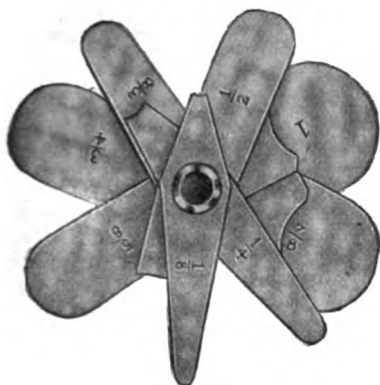
FIG. 2. ELLIS ADJUSTABLE "S" WRENCH

1 shows the Wrench with the jaws offset to the left. The method of securing the jaws to the right, to the left, or straight, is clearly indicated. In Fig. 2 the Wrench is shown with the pipe jaw inserted. This makes a handy pipe wrench and does away with the delay and inconvenience of changing wrenches. The tool can be used as a straight adjustable "S"

wrench, an offset adjustable "S" wrench, a straight adjustable pipe wrench or as an offset adjustable Pipe Wrench. It will work around corners, behind pipes and in all sorts of inaccessible places where an especially made wrench would otherwise be necessary. It is especially suitable for use on automobiles. The sliding jaw is removable and the change from nut wrench to pipe wrench can be quickly made. It is made in 6, 8, 12 and 18-inch sizes.

The Concave and Convex Gauge

Patterson, Gottfried & Hunter, Ltd., 146 Centre street, New York City, are placing on the market the concave and convex Gauge, illustrated. It consists of eight tempered spring steel gauges measuring from $\frac{1}{8}$ to one inch. One end of each gauge is accurately ground to measure the concave arc of the



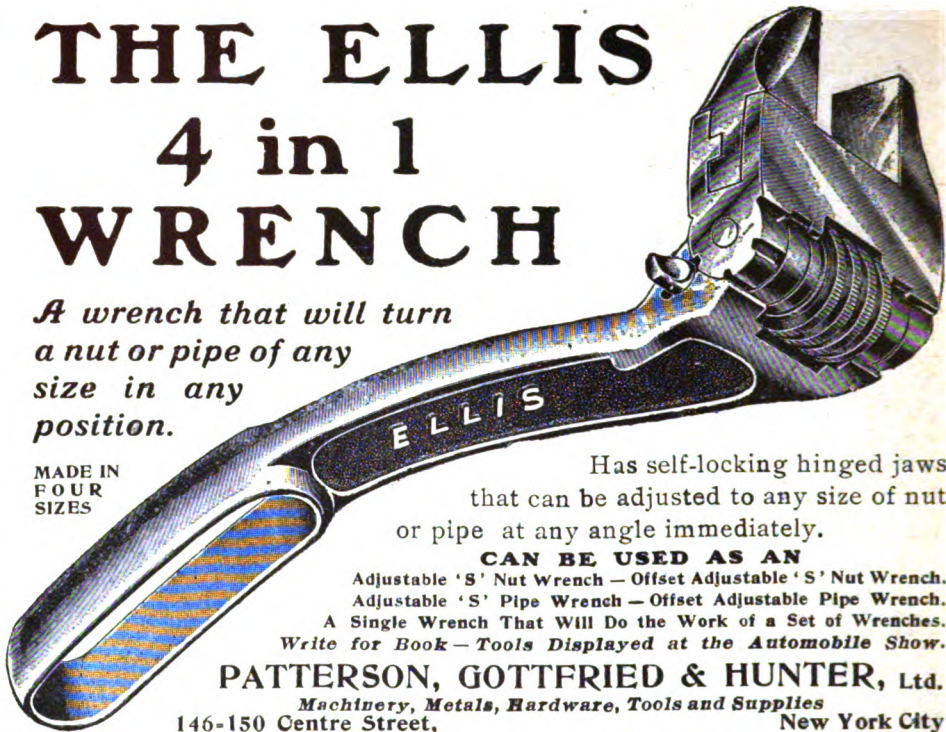
CONCAVE AND CONVEX GAUGE

circle the diameter of which is stamped on each gauge and the other end measures the convex arc of the same circle. It furnishes a means for accurately turning work in a lathe and makes it possible to make absolute duplicates. It is essential to pattern makers and has many other uses which will instantly occur to any machinist, for example,—grinding roundnose tools.

THE ELLIS 4 in 1 WRENCH

*A wrench that will turn
a nut or pipe of any
size in any
position.*

MADE IN
FOUR
SIZES



Has self-locking hinged jaws
that can be adjusted to any size of nut
or pipe at any angle immediately.

CAN BE USED AS AN

Adjustable 'S' Nut Wrench — Offset Adjustable 'S' Nut Wrench.

Adjustable 'S' Pipe Wrench — Offset Adjustable Pipe Wrench.

A Single Wrench That Will Do the Work of a Set of Wrenches.

Write for Book—Tools Displayed at the Automobile Show.

PATTERSON, GOTTFRIED & HUNTER, Ltd.

Machinery, Metals, Hardware, Tools and Supplies

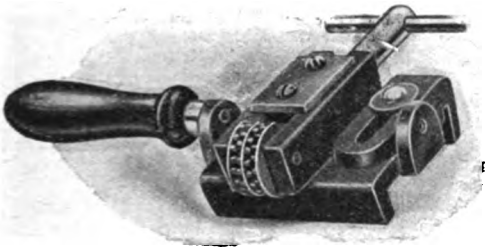
146-150 Centre Street,

New York City

way the high spots are taken off and at the same time the face of the wheel straightened. Another advantage is that the machine operator stands to one side instead of in front of the wheel, thus avoiding injury from flying emery or from the wheel in case it breaks.

Adjustable Emery Wheel Dresser

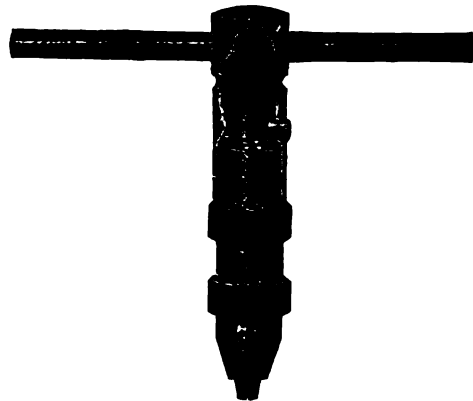
Patterson, Gottfried & Hunter, Ltd., 150 Centre street. New York. are placing on the



ADJUSTABLE EMERY WHEEL DRESSER
market the Adjustable Emery Wheel Dresser, illustrated. It is designed to work on the

Ratchet Tap Wrench

Patterson, Gottfried & Hunter, Ltd, 150 Centre street, New York, are offering the trade the Ratchet Tap Wrench, illustrated. This is a tool which will meet many of the demands previously made by automobile and bicycle repairers. Frequently repairs often



RATCHET TAP WRENCH

require tapping and reaming close to walls or beside projections. The Wrench is made of fine steel; it is of simple construction, and has no delicate parts to get out of order. The handle is securely fastened in the socket as shown in the illustration, and the end of the chuck fits into this and is held in place by a small set screw. The end of the chuck portion has two grooves cut at right angles, thus forming four teeth. These teeth engage with that portion of the handle which passes through the head, thus giving a simple ratchet movement. The tool is $3\frac{1}{4}$ inches long and the tee-handle is $2\frac{3}{4}$ inches long, thus giving a good grip. The Wrench can be used like any ordinary tee-handle tap wrench in starting the tap, but when started the tap can be ratcheted in or out by raising the handle slightly.